**Industrial I/O Features**

**Specifications**

**Digital Input**
- Channels: 16
- Compatibility: 5 V/TTL
- Input Voltage:
  - Logic 0: 0.8 V max.
  - Logic 1: 2.0 V min.
- Interruptible Channels:
  - PCIE-1730: 2 (IDI0, IDI8)
  - PCIE-1730H: 16

**Isolated Digital Input**
- Channels: 16
- Input Voltage:
  - Logic 0: 3 V max.
  - Logic 1: 10 V min. (30 V max.)
- Interruptible Channels:
  - PCIE-1730: 2 (IDI0, IDI8)
  - PCIE-1730H: 16
- Isolation Protection: 2,500 VDC
- Response Time: 100μs
- Input Resistance: 2.7 kΩ @ 1 W
- Digital Filter Time (PCIE-1730H only)

<table>
<thead>
<tr>
<th>Setting Data (n)</th>
<th>Digital Filter Time</th>
<th>Setting Data (n)</th>
<th>Digital Filter Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 (00h)</td>
<td>64μsec</td>
<td>15 (0Fh)</td>
<td>4.096msec</td>
</tr>
<tr>
<td>10 (0Ah)</td>
<td>128μsec</td>
<td>16 (10h)</td>
<td>8.192μsec</td>
</tr>
<tr>
<td>11 (0Bh)</td>
<td>256μsec</td>
<td>17 (11h)</td>
<td>16.384μsec</td>
</tr>
<tr>
<td>12 (0Ch)</td>
<td>512μsec</td>
<td>18 (12h)</td>
<td>32.768μsec</td>
</tr>
<tr>
<td>13 (0Dh)</td>
<td>1,024μsec</td>
<td>19 (13h)</td>
<td>65.536μsec</td>
</tr>
<tr>
<td>14 (0Eh)</td>
<td>2.048msec</td>
<td>20 (14h)</td>
<td>131.072msec</td>
</tr>
</tbody>
</table>

**Digital Output**
- Channels: 16
- Compatibility: 5 V/TTL
- Output Voltage:
  - Logic 0: 0.5V max.
  - Logic 1: 2.4V min.
- Output Capability:
  - Sink: 24mA @ 0.5V
  - Source: 15mA @ 2.4V

**Isolated Digital Output**
- Channels: 16
- Output Type: Sink type (NPN)
- Isolation Protection: 2,500 VDC
- Output Voltage: 5 – 40 VDC
- Sink Current: 500 mA max./channel
- Response Time: 100μs

**General**
- Bus Type: PCI Express V1.0
- I/O Connectors:
  - 1 x DB37, female
  - 4 x 20-pin box header
- Dimensions (L x H):
  - 168 x 100 mm (6.6” x 3.9”)
- Power Consumption:
  - Typical: 3.3 V @ 280 mA, 12 V @ 330 mA
  - Max.: 3.3 V @ 420 mA, 12 V @ 400 mA
- Operating Temperature: 0 – 60 °C (32 – 140 °F)
- Storage Temperature: -25 – 85 °C (-13 – 185 °F)
- Storage Humidity: 5 – 95% RH, non-condensing

**Ordering Information**
- PCIE-1730-BE: 32-ch TTL and 32-ch isolated digital I/O PCIe card
- PCIE-1730H-BE: 32-ch TTL and 32-ch isolated digital I/O PCIe card with digital filter and interrupt function

**Accessories**
- PCL-10120-1E: 20-pin flat cable, 1 m
- PCL-10120-2E: 20-pin flat cable, 2 m
- ADAM-3920-AE: 16-ch isolated DI board w/1 m, 20-pin flat cable
- PCLD-782-BE: 16-ch power relay board w/20-pin and 50-pin flat cables
- PCLD-785-BE: 16-ch relay board w/1 m, 20-pin flat cable
- ADAM-3937-BE: DB37 DIN rail wiring board
- PCL-10137-1E: DB37 cable, 1 m
- PCL-10137-2E: DB37 cable, 2 m
- PCL-10137-3E: DB37 cable, 3 m

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**Introduction**

PCIE-1730/1730H feature 32 TTL digital I/O channels and 32 digital I/O channels with up to 2,500 VDC isolation protection, making them ideal for industrial applications that require high-voltage isolation. For PCIE-1730H, all signals can be used as interrupt request signals and to disable/enable the interrupt function for every channel, as well as to support the input signal edge, which generates interrupts. All PCIE-1730 digital input channels have a digital filter to prevent inaccurate recognition of input signals that contain noise or chattering.

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**Features**
- 32-ch isolated D/I/O (16-ch digital input, 16-ch digital output)
- 32-ch TTL D/I/O (16-ch digital input, 16-ch digital output)
- High output driving capacity
- Interrupt handling capability
- Selectable digital filter time
- D-type connector for isolated input and output channels
- High-voltage isolation on output channels (2,500 VDC)
Mouser Electronics

Authorized Distributor

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Advantech:
PCIE-1730-BE